


```

    Edge / PSA assigned / PSA to 128
    TMR0H= _TIMEH;
    TMR0L= _TIMEL;

}

/*****
    NT07S returns char configuration of a,b,c,d,e,f,g,dp of a char
    between 0-9 & A-F
*****/
char NT07S (char n){
    if(n<0||n>16)
        return 0x40; //returns horizontal line as an error
    return (char)BCD7S[n];
}

/*****
    UPDATE : Functions updates DISPLAY vars with the new config, (FALSE:it
    is OVERLOADED to support multiple inputs)
*****/

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/*****
    UPDATE: 1 variable between 1-9999
*****/
void Update(int n){
    if(n>=0&&n<=9999){
        DISPLAY[0]=NT07S(n%10);
        DISPLAY[1]=NT07S((n/10)%10);
        DISPLAY[2]=NT07S((n/100)%10);
        DISPLAY[3]=NT07S((n/1000)%10);
    }
}

/*****
    UPDATE2: 2 variables between 1-99 each [ORDER= N1:N2]
*****/
void Update2(int n1,int n2){
    if(n2>=0&&n2<=99){
        DISPLAY[0]=(char)NT07S(n2%10);
        DISPLAY[1]=(char)NT07S(n2/10);
    }
    if(n1>=0&&n1<=99){
        DISPLAY[2]=(char)NT07S(n1%10);
        DISPLAY[3]=(char)NT07S(n1/10);
    }
}

/*****
    UPDATE4: 4 variables between 1-9 each [ORDER= N1:N2:N3:N4]
*****/
void Update4(char n1,char n2,char n3,char n4){
    if(n4>=0&&n4<=9)
        DISPLAY[0]=NT07S(n4);
    if(n3>=0&&n3<=9)
        DISPLAY[1]=NT07S(n3);
    if(n2>=0&&n2<=9)
        DISPLAY[2]=NT07S(n2);
    if(n1>=0&&n1<=9)

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        DISPLAY[3]=NT07S(n1);
    }
    /*****
UPDATE_L: Update Literal Value on the Nth display  ORDER:[CC3:CC2:CC1:
        CC0]
*****/
void Update_L(char config,char CC){
    if(CC>=0&&CC<=3)
        DISPLAY[CC]=config;
}
/*****
UPDATE_H: Updates Hexadcimal Value on the display (0x0000-0xFFFF)
*****/
/*void Update_H(int h1){
    if(h1>=0x0000&&h1<=0xFFFF)
        Update_H2((char)h1>>8,(char)h1&0xFF);
}
/*****
UPDATE_H2: Updates 2 Hexadcimal Value on the display (0x00-0xFF) Each
        // 2 bytes represnted
*****/
void Update_H2(char h1,char h2){
    DISPLAY[0] = NT07S(h2&0xF);
    DISPLAY[1] = NT07S((h2>>4)&0xF);
    DISPLAY[2] = NT07S(h1&0xF);
    DISPLAY[3] = NT07S((h1>>4)&0xF);
}
/*****

-----
FINISH OF UPDATE
*****/

/*****
        SET DECIMAL : Activates decimal point of the nth display  ORDER:
                [3:2:1:0]
*****/
void Set_Decimal (char cc){
    if(cc>=0&&cc<=3)
        DISPLAY[cc]|=0b10000000;
}

/*****
        ERASE DECIMAL : Deactivates decimal point of the nth display
                ORDER: [3:2:1:0]
*****/
void Erase_Decimal (char cc){
    if(cc>=0&&cc<=3)
        DISPLAY[cc]&=0b01111111;
}
/*****
        REFRESH : Turns on consecutiely all the display everytime the TMR0
                makes an interrupt
                : Resets TMR0 and Erase the flag
*****/
void Refresh (void){

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TMR0H=_TIMEH;          // Siempre se debe escribir primero TMR0H y luego
    TMR0L
TMR0L=_TIMEL;          // Recarga TMR0 LH
_TMR0IF=0;            //INT Flag

                                //CCON is the Active Catode
PORTA&=CCANDMASK;      //Erases previos catode(s)
PORTA|=CC7S[CCON];     //Puts actual catode
PORTB=DISPLAY[CCON++]; //Turns On the necessary LEDs
CCON &=0x03;
}

/*

}

/*****
EOF
*****/
```